

APPENDIX G. Recharge Projects: Permitted, Proposed, and Potential

The following is a table of all projects mentioned by entity representatives during interviews, the entities mentioning them, and their interest in the project. The table includes all projects on the original RRC list of 37 projects, even if they were not mentioned during interviews. Projects analyzed by the RRC are listed first, followed by the remaining projects in alphabetical order. At the end of the table are listed proposals for recharge projects or direct use of effluent from proposed satellite wastewater treatment facilities mentioned during interviews.

Facility Name	Status	Type	Source Water	Entity - Interest	
Lower Santa Cruz #1	drafting permit	SB	CAP (Effluent)	Reclamation PCFCD PCWWM Metro Marana Oro Valley CAWCD AWBA ADWR	- technical assistance, study funding - co-applicant & technical assistance - share capacity - co-sponsor, study funding, use possible - co-applicant - co-sponsor - co-applicant (State Demo Project) - 5,000 af planned storage for 1998 - study funding
Canada Del Oro Recharge & Recovery Project #2	proposed; feasibility studies ongoing	SB & IC	CAP	Reclamation CAWCD Metro Oro Valley Marana PCFCD ADWR	- NWRP, technical assistance, study funding - technical assistance - NWRP, technical assistance, study funding - NWRP; talks on conveyance from Pinal Co. - NWRP, study funding - NWRP, land - study funding
Avra Valley Recharge Project #3	full-scale permit issued	SB	CAP	Metro CAWCD Marana ASLD AWBA	- storage permit holder; pilot 8,300 af over 2 years, 40% of full-scale volume for 3 years - permits holder, funding (State Demo Project) - store 47 af CAP allocation if capacity available - leased land - 7,500 af planned storage for 1998
Pima Mine Road Recharge Project #4	large-scale pilot permit issued	SB	CAP	CAWCD SXD TW AWBA	- permits holder; 50-50 split; 2 yr, 10,000 af pilot - right-of-way negotiations - permit holder; 50-50 split - 5,000 af planned storage for 1998
CAVSARP #5	expanded pilot permit issued; third pilot anticipated	SB	CAP	TW AWBA	- 10,000 af over 2 years (pilot) permit holder - 5,040 af committed storage in 1998

South Avra Valley #6	proposed	SB	CAP	BKW	- share conveyance similar to AVRP and CAVSARP
Tangerine Road #7	concept	SB		None	
San Xavier Arroyos #8	small scale pilot summer of 1997	IC	CAP	SXD Reclamation CAWCD TW	- Water Protection Grant funded study for riparian restoration - technical assistance, prepared blowouts - prepared blowouts - supply treated CAP water, prepared blowouts
Santa Cruz River at SXD #9	proposed	IC	CAP	SXD Reclamation CAWCD TW	- project for riparian restoration - talks, support - talks - paid for outlet structure
Pantano, Tanque Verde, Rillito River #10	proposed	IC	CAP or Effluent	T-W6	- this concept is not being pursued at this time
Brawley Wash at Three Points #11	proposed	SB	CAP	none	
Cortoro Marana Irrigation District (CMID) #12	expansion permit issued	GSF	CAP	CMID CAWCD TW Spanish Trail CWC of GV	- expanded permit volume 20,000 af; facility permit holder - facility and storage permit holder - storage permit holder - storage permit holder - storage permit holder
BKW Farms #13	permitted; expansion application incomplete and incorrect	GSF	CAP	BKW CAWCD TW Metro ASLD CWC of GV	- share conveyance with AVRP; 8,800 af permit volume, expansion to 16,614 af - facility and storage permits holder - storage permit holder - storage permit holder - leased land - storage permit holder
Avra Valley Irrigation District (AVID) #14	permitted	GSF	CAP	Kai	- 2 - 4 miles from canal; 12,513 af permit volume
Farmers Investment Company (FICO) #15	proposed	GSF		FICO ADWR	- 20,000 af/yr; part of USCWUG feasibility study - study funding

ASARCO - Mission Mine #16	proposed	GSF	CAP	TW ASARCO ADWR	- study - study - study funding
Kai Farms at Picacho #17	permitted	GSF	CAP	CAWCD Kai Metro GVWC TW Oro Valley Spanish Trail WC ASLD	- storage permit - facility permit 11,231 af - storage permit; 2,000 - 3,000 af contract - storage permit and 2,000 af contract - storage permit and 4,000 af contract - storage permit and contract - storage permit and contract - state leased land
Pascua Yaqui #18	proposed	SB	CAP	Pascua Yaqui Reclamation	- income, credits, employment - talks; inactive on advice from Pascua Yaqui
BKW at Mile Wide	application incomplete and incorrect	GSF	CAP (TW)	BKW CAWCD	- share conveyance - applicant
Ajo Detention Basin	concept	SB	CAP	PC P&R PCFCD	- Talk about secondary considerations - Looking at getting reclaimed water to site
Alvernon/Rillito Storm Drain	concept	IC	CAP	none	
Atturbury Wash	pre-application meeting held	IW	Effluent	TW	- one of TW's Multiple Benefit Water Projects
Avra Valley Gravel Pit	concept	SB		none	
Bechman Gravel Pit	proposed	SB	CAP		- Bechman willing to deed land for recharge in exchange for use of lake for recreation
BKW Farms SAV	concept	GSF	CAP	BKW	- shared conveyance similar to AVRP and CAVSARP
BKW Siphon	preapplication meeting held	IW or subsurface leach fields	CAP	Metro Marana BKW	- co-applicant, technical assistance - co-applicant - co-operator
CMID - Effluent	proposed	GSF	Effluent	PCWWM	- may require legislative change (~ 2,000 af)
High Plains Effluent Recharge Project	application incomplete and incorrect	SB	Effluent	Reclamation Marana PCFCD	- Program funding source for research project - co-applicant ;600 af/yr for 2 years, 1,200 af total; Water Protection Grant for riparian restoration - a PCFD research project; co-applicant
Manville-Brawley	concept	SB		PCFCD	- purchased land for flood control purposes

Reclamation - CAWCD Siphon	concept	SB	CAP	Reclamation Pascua Yaqui	- 32 acres Reclamation turned over to CAWCD - long-term storage credits
Rillito Recharge Project	proposed	IC	IC Storm water, CAP, effluent (inflatable dam)	PCFCD	- several years of study; support politically (Reclamation funding moved to High Plains project on LSC) City no longer interested
Rillito Pilot Recharge Project	proposed	IC	Effluent, GW	TW	- Tucson Mayor and Council voted on March 16, 1998, to pursue this project to test the long-term viability of recharge in the Rillito
Santa Cruz River (Roger Road WTF)	application withdrawn	IC	Effluent	Reclamation TW Marana	- IGA drafted: 9,000 af, up to 17,000; 5.1 miles - split 50-50 with Secretary of Interior
Schuk Toak	concept	SB?		Reclamation	- pipeline to Schuk Toak for farming; potential for recharge
Sweetwater USF	permitted, permit for modification issued	SB	Effluent	TW	- 6,500 af/yr; including new basins; provides seasonal storage for reclaimed system associated with wetlands project; may operate in conjunction with IC project
Tanner Gravel Pit	concept	SB	CAP	PCFCD	- talks (Pit operator currently mining bottom)
TARP	concept, future uncertain	IC	Remediated GW	PCFCD TW PCP&R	- studies - studies
TW Pilot Injection Projects	permits expired	IW		TW	- inactive
San Xavier Surface Basins	concept	SB		none	
San Xavier Gravel Pit	concept	SB		TW	- evaluating
USCWUG (Non-FICO)	concept	Pipeline		ADWR TW + many others Sahuarita	- feasibility study funding - cooperation - long-term intention to use CAP
Avra Valley WTF	proposed	SB	Effluent	PCWWM	- credits for percolation pond

Canoa WTF	concept	IC	Effluent	GVWC PCWWM	- in Santa Cruz 3 miles N of Elephant Head Road; operate facility; draft agreement - Fairfield would use on golf courses
Green Valley WTF	concept	??	Effluent	Com WC of GV	- talks w/ developers
Green Valley WTF	proposed	SB		PCWWM	- credits for percolation pond
Marana WTF	proposed	??	CAP and Effluent	Marana (PC)	- reclaimed facility at Silverbell/Airline, north of Twin Peaks; <450 af
Oro Valley WTF	proposed	??	Effluent	PCWWM	- operate; direct to golf courses
Rancho Sahuarita WTF	proposed	SB	Effluent	Interchange PCWWM Sahuarita	- 40 acres in master plan - operate; draft agreement - support
Saddlebrook	proposed	IW	Effluent	none	

Key to abbreviations:

TYPE

CAP : Central Arizona Project
GSF : groundwater savings facility
IC : in-channel project
IW : injection well
SB : spreading basins
?? : unknown

ENTITY

ADWR: Arizona Department of Water Resources
AWBA : Arizona Water Banking Authority
BKW : BKW Farms
CAGRD : Central Arizona Groundwater Replenishment District
CAWCD : Central Arizona Water Conservation District
CMID : Cortaro Marana Irrigation District
CWC of GV: Community Water Company of Green Valley
FICO : Farmers Investment Company
GVWC : Green Valley Water Company
Kai : Kai Farms
Metro : Metropolitan Domestic Water Improvement District
PC P&R : Pima County Parks & Recreation Department

ENTITY (Cont'd.)

PCFCD : Pima County Flood Control District
PCWWM : Pima County Waste Water Management
Reclamation: U.S. Bureau of Reclamation
ASLD : Arizona State Land Department
SXD : San Xavier District of the Tohono O'odham Nation
T-W6 : City of Tucson, Ward 6
TW : Tucson Water

INTEREST

af : acre-feet
AVRP : Avra Valley Recharge Project
CAVSARP : Central Avra Valley Storage and Recovery Project
IGA : intergovernmental agreement
LSC : Lower Santa Cruz project
NWRP : Northwest Replenishment Program